

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/002685

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 C07D 311/04**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07D 311

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KOREAN PATENTS AND APPLICATIONS FOR INVENTIONS SINCE 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
REGISTRY(STN), CAPLUS(STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Shih et al., 'Total synthesis of 5-O-methyllicoricidin' In J. Org. Chem., vol. 52, pp. 2029-2033 (1987)	10
X	Versteeg et al., 'Stereoselective synthesis of isoflavonoids. (R)- and (S)-isoflavans' In Tetrahedron, vol. 55, pp. 3365-3376 (1999)	10
X	Felfoldi et al., 'Synthesis of E- and Z-o-methoxy-substituted 2,3-diphenylpropenoic acids and its methyl esters' In Synthetic Communications, vol. 30(9), pp. 1543-1553 (2000)	9
X	US 5721248 A (BAYER AKTIENGESELLSCHAFT) 24 February 1998. See entire document.	9
A	US 4366082 A (Z-L LIMITED PARTNERSHIP) 28 December 1982. See entire document.	1-10
A	Simas et al., 4-Chromenesulphones: synthesis and transformation to isoflavonoid models' In Tetrahedron Letters, vol. 43, pp. 6893-6895 (2002)	1-10

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

31 JANUARY 2005 (31.01.2005)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/002685

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US5721248A	24.02.1998	EP630895A1	28.12.1994
		DE4321030A1	05.01.1995
		US5545646A	13.08.1996